

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of the claims in the Application. With reference to the listing it is noted that, herewith, claims 1, 2, 6, 7, 8, 11-15, 17-22, 24, and 27-30 are amended. No new matter has been added.

Listing of Claims

1. (Currently Amended) A method ~~for a receiver to detect a need to implement a filter to a multicast program, the method~~ comprising:
 - examining a connection from a client machine;
 - retrieving a filter parameter for the connection; and
 - implementing the filter parameter as a filter for a multicast program.
2. (Currently Amended) The method according to claim 1 wherein ~~the~~ a receiver is integrated with the client machine.
3. (Original) The method according to claim 1 wherein examining a connection further comprises examining a user datagram protocol (UDP) port.
4. (Original) The method according to claim 1 wherein the connection from a client machine is used to determine the filter parameter to be retrieved.

5. (Original) The method according to claim 1 wherein the filter parameter comprises a program identifier.

6. (Currently Amended) The method according to claim 1 wherein ~~the~~ a receiver is a digital broadcast ~~Digital Video Broadcast—Terrestrial~~ receiver.

7. (Currently Amended) A method ~~for a receiver to detect a need to remove a filter for a multicast program, the method~~ comprising:

examining a filter;

determining a connection the filter is associated with;

examining a plurality of connections from a client machine;

removing the filter if the connection from the client machine does not correspond to the connection the filter is associated with.

8. (Currently Amended) The method according to claim 7 wherein ~~the~~ a receiver is integrated with the client machine.

9. (Original) The method according to claim 7 wherein examining a connection further comprises examining a user datagram protocol port.

10. (Original) The method according to claim 7 wherein determining further comprises determining whether there is a connection to the client machine.

11. (Currently Amended) The method according to claim 7 wherein ~~the~~ a receiver fetches a filter parameter from a table containing service information.

12. (Currently Amended) A method ~~for a receiver to detect a need to implement a filter for a multicast program, the method~~ comprising:

examining a message received from a client machine;

retrieving a filter parameter for a connection to the client machine; and

implementing the filter parameter as a filter for a multicast program.

13. (Currently Amended) The method according to claim 12 wherein ~~the~~ a receiver is integrated with the client machine.

14. (Currently Amended) The method according to claim 12 wherein ~~the~~ a receiver is a digital broadcast ~~Digital Video Broadcast—Terrestrial~~ receiver.

15. (Currently Amended) A method ~~for a receiver to detect a need to remove a filter for a multicast program, the method~~ comprising:

examining a message received from a client machine;

retrieving a filter parameter for a connection to the client machine; and

removing a filter based on the filter parameter.

16. (Original) The method according to claim 15 wherein the message is an IGMP message.

17. (Currently Amended) The method according to claim 15 wherein ~~the~~ a receiver fetches the filter parameter from a table containing service information.

18. (Currently Amended) A method ~~for managing a filter, the method~~ comprising:

detecting an IGMP packet containing an instruction to join or leave a multicast group, said IGMP packet being associated with an entry in a table;

removing a filter based on a filter parameter associated with the entry in the table that corresponds to the IGMP message having the instruction to leave a multicast group; and

adding a filter based on a filter parameter associated with the entry in the table that corresponds to the IGMP packet having the instruction to enter a multicast group.

19. (Currently Amended) A method ~~for managing a filter in a system having a service information table (SIT) comprising a plurality of entries, each entry having a port number and a filter parameter, and a User Datagram Protocol (UDP) Listener Table comprising a plurality of entries, each entry having a port number and an local internet protocol (IP) address, the method~~ comprising:

comparing each entry in a UDP Listener Table to each entry in a SIT;

determining a filter parameter of a first type of entry, wherein the first type of entry is present in the UDP Listener Table and not present in the SIT;

implementing a filter parameter of the first type of entry as a first filter;

determining the filter parameter of a second type of entry that is present in the SIT and not present in the UDP Listener Table;

removing a second filter based on the filter parameter of the second type of entry.

20. (Currently Amended) The method according to claim 19 wherein the UDP Listener Table entry is identified as a multicast address by ~~the~~ a local IP address.

21. (Currently Amended) A method ~~for creating a filter for data at a multicast receiving node, the method~~ comprising:

- detecting a multicast data connection;
- associating the data connection with a filter parameter;
- creating a socket;
- binding the socket to a port number;
- fetching the filter parameter; and
- accepting data from the data connection,

wherein said data is processed based on the filter parameter.

22. (Currently Amended) The method according to claim 21 wherein ~~the~~ a multicast receiving node includes a digital broadcast ~~Digital Video Broadcast—Terrestrial~~ receiver.

23. (Original) The method according to claim 22 wherein fetching further comprises examining a table containing service information.

24. (Currently Amended) A method ~~for removing a filter for data at a multicast receiving node, the method~~ comprising:

- detecting a data connection being closed;

- associating the data connection with a filter parameter;
- leaving a multicast group;
- fetching the filter parameter;
- removing a filter based on the filter parameter.

25. (Original) The method according to claim 24 wherein detecting further comprises continuously polling the user datagram protocol (UDP) Listener Table.

26. (Original) The method according to claim 25 wherein polling the UDP Listener Table further comprises identifying multicast data from the UDP Listener Table.

27. (Currently Amended) ~~A method for activating a data filter in a Digital Video Broadcast—Terrestrial system having a service information table (SIT) comprising an entry having a filter parameter and a filter status, said system transmitting an IGMP message, the method comprising:~~

- detecting a IGMP message;
- retrieving a filter parameter from an SIT;
- activating a filter based on the filter parameter; and
- changing a filter status in the SIT.

28. (Currently Amended) ~~A method for removing a data filter in a Digital Video Broadcast—Terrestrial system having a service information table (SIT) comprising an entry having a filter parameter, a User Datagram Packet (UDP) port number, and a filter status, said system also having a UDP Listener Table comprising an entry having a UDP port number and a local internet~~

protocol (IP) address that indicates that said entry is a multicast connection, the method comprising:

polling a UDP Listener Table;

correlating a UDP entry with an SIT entry;

identifying an SIT entry having an active status as the filter status;

removing a data filter corresponding to a filter parameter of the identified SIT entry; and

changing the filter status of the SIT entry.

29. (Currently Amended) An article of manufacture ~~for managing a filter in a Digital Video Broadcast—Terrestrial system having a service information table (SIT) comprising an entry having a filter parameter, and transmitting an IGMP packet containing a multicast group address and an instruction, the article~~ comprising:

a computer readable medium including instructions for:

detecting the an IGMP packet with the instruction to join or leave a multicast group;

removing the a filter for the an SIT entry that corresponds to the IGMP packet having the instruction to end a subscription; and

adding the a filter for the an SIT entry that corresponds to the IGMP packet having the instruction to begin a subscription.

30. (Currently Amended) An article of manufacture ~~for managing a filter in a Digital Video Broadcast—Terrestrial system having a service information table (SIT) comprising an entry~~

~~having a port number and a filter parameter, and a user datagram protocol (UDP) Listener Table comprising an entry having a port number and an internal internet protocol (IP) address, the article comprising:~~

a computer readable medium including instructions for:

finding ~~the~~ an SIT entry that corresponds to ~~the~~ a UDP entry having ~~the~~ a local IP address associated with ~~the~~ a port number of a multicast connection;

removing ~~the~~ a filter that contains ~~the~~ a filter parameter corresponding to ~~the~~ an SIT entry with which there is no UDP entry associated; and

activating ~~the~~ a filter for ~~the~~ a filter parameter that is in both tables and for which the filter is not applied.

31. (Original) The method according to claim 1 wherein the method is implemented in a wireless handheld terminal.

32. (Original) The method according to claim 18 wherein the method is implemented in a wireless handheld terminal.

33. (Original) The method according to claim 21 wherein the method is implemented in a wireless handheld terminal.

34. (Original) The method according to claim 28 wherein the method is implemented in a wireless handheld terminal.